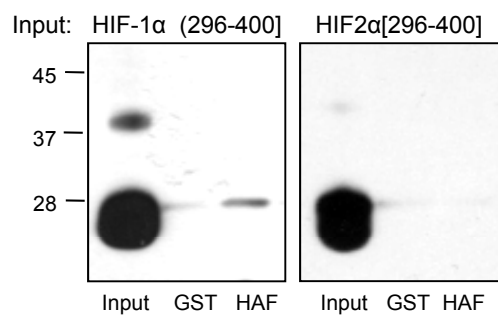
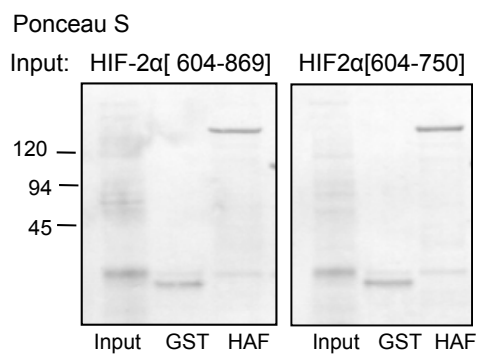


Supplemental dataS1

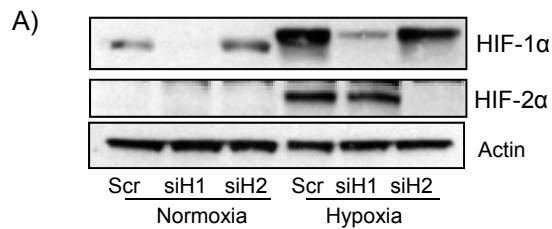
A)



B)



Supplemental dataS2



B) i) HIF-1α target genes

| Gene Symbol | Fold-Change (HypHIF-1 vs. NorScr) | Fold-Change (HypHIF-2 vs. NorScr) | Fold-Change (HypScr vs. NorScr) |
|-------------|-----------------------------------|-----------------------------------|---------------------------------|
| PDK1 | 3.01 | 6.39 | 5.72 |
| BNIP3L | 2.29 | 4.09 | 4.14 |
| CA9 | 2.54 | 20.16 | 23.64 |
| DDIT4 | 2.58 | 4.27 | 4.96 |
| ENO2 | 2.50 | 7.35 | 7.83 |
| ALDOC | 6.22 | 22.72 | 22.88 |
| TXNIP | ? | 4.50 | 4.63 |
| BNIP3 | ? | 3.70 | 3.60 |
| ADM | ? | 4.07 | 4.14 |
| MAP2K1 | ? | 2.01 | 2.06 |
| DUSP3 | ? | 2.06 | 2.07 |
| COL1A1 | ? | 2.32 | 2.09 |
| ENOSF1 | ? | 2.13 | 2.15 |
| GPI | ? | 2.84 | 3.10 |
| PFKL | ? | 2.54 | 2.82 |
| PGK1 | ? | 2.38 | 2.39 |

ii) HIF-2α target genes

| Gene Symbol | Fold-Change (HypHIF-1 vs. NorScr) | Fold-Change (HypHIF-2 vs. NorScr) | Fold-Change (HypScr vs. NorScr) |
|-------------|-----------------------------------|-----------------------------------|---------------------------------|
| SERPINE1 | 2.17 | ? | 2.66 |

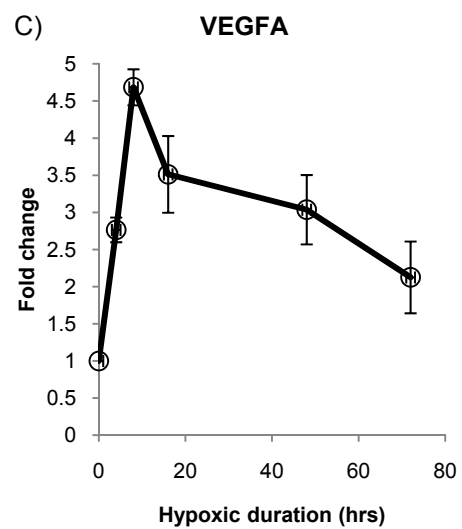
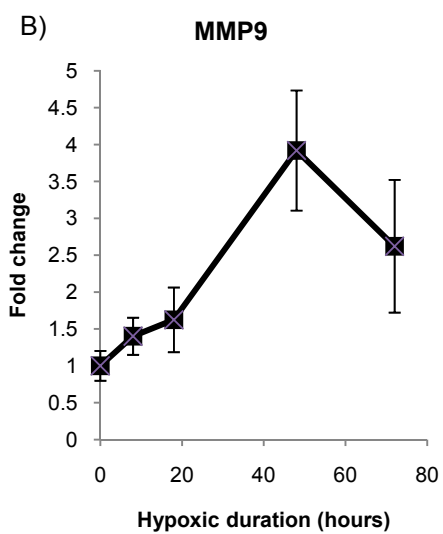
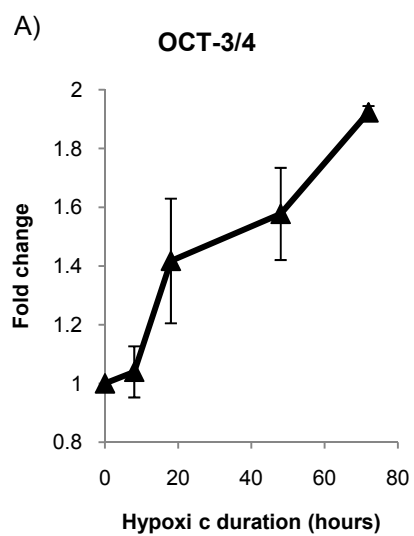
iii) HIF-1/2α target genes

| Gene Symbol | Fold-Change (HypHIF-1 vs. NorScr) | Fold-Change (HypHIF-2 vs. NorScr) | Fold-Change (HypScr vs. NorScr) |
|-------------|-----------------------------------|-----------------------------------|---------------------------------|
| PTGS2 | 2.27 | 4.36 | 6.23 |
| IGFBP5 | 2.17 | 3.96 | 5.11 |
| CP | 3.38 | 4.60 | 7.64 |
| VEGFA | 4.04 | 7.08 | 8.10 |
| IGFBP3 | 2.03 | 3.03 | 4.96 |
| NDRG1 | 5.27 | 9.84 | 11.51 |
| SLC2A3 | 2.21 | 3.30 | 4.07 |
| ANGPTL4 | 2.55 | 9.43 | 12.47 |
| AK3L1 | ? | ? | 2.18 |
| EFR3B | ? | ? | 2.29 |
| DDIT4L | ? | ? | 2.01 |
| LOXL2 | ? | ? | 2.14 |
| PTGES | ? | ? | 2.63 |
| PYGL | ? | ? | 2.08 |
| IGF1R | ? | ? | 2.59 |
| RARA | ? | ? | 2.33 |
| TGM2 | ? | ? | 2.51 |
| CITED1 | ? | ? | 3.18 |

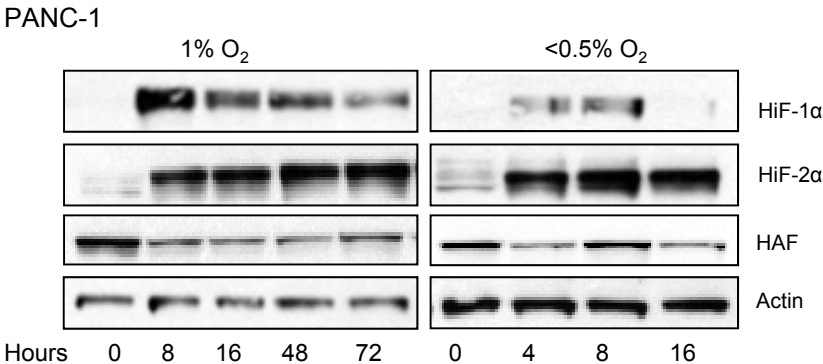
IV) HIF independent genes

| Gene Symbol | Fold change (HypHIF-1 vs. NorScr) | Fold change (HypHIF-2 vs. Nor Scr) | Fold change (HypScr vs. Nor Scr) |
|-------------|-----------------------------------|------------------------------------|----------------------------------|
| CBS | 3.00 | 3.52 | 3.30 |
| PRELP | 2.45 | 4.31 | 2.97 |
| DPY19L2P2 | 3.42 | 4.41 | 2.81 |
| PCK2 | 2.22 | 2.52 | 2.67 |
| JMJD1A | 2.07 | 3.13 | 2.53 |
| HERC1 | 2.02 | 2.24 | 2.37 |
| FREM2 | 2.45 | 2.17 | 2.34 |
| CHAC1 | 4.22 | 2.99 | 2.31 |
| ASNS | 2.23 | 2.62 | 2.16 |

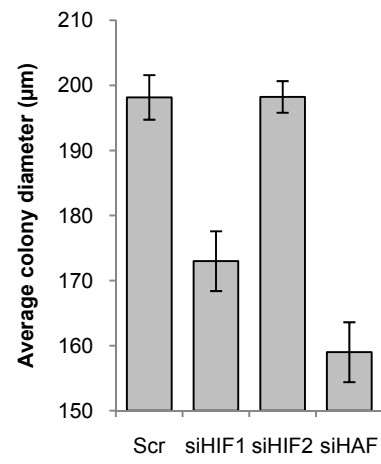
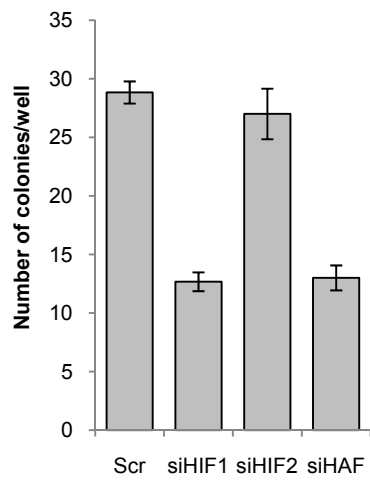
Supplemental dataS3



Supplemental dataS4

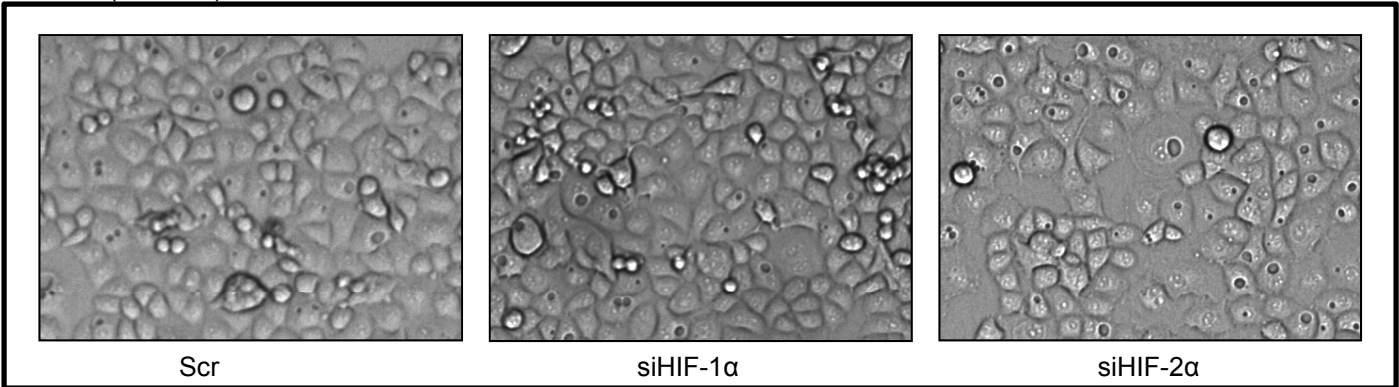


Supplemental dataS5

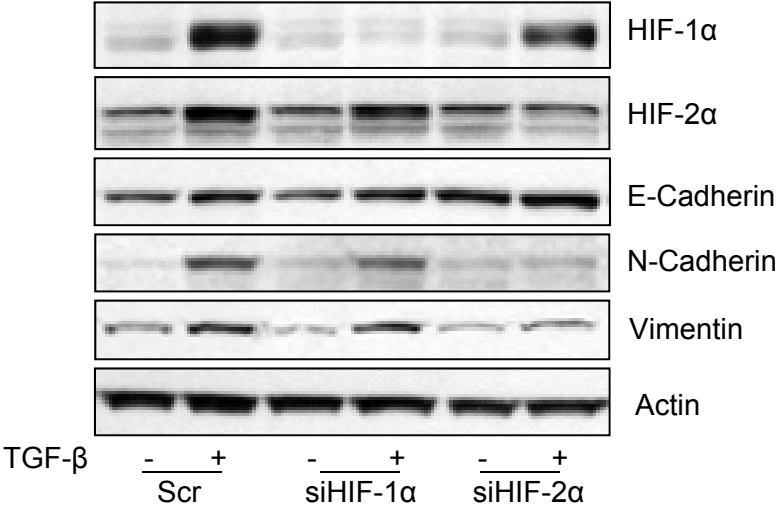
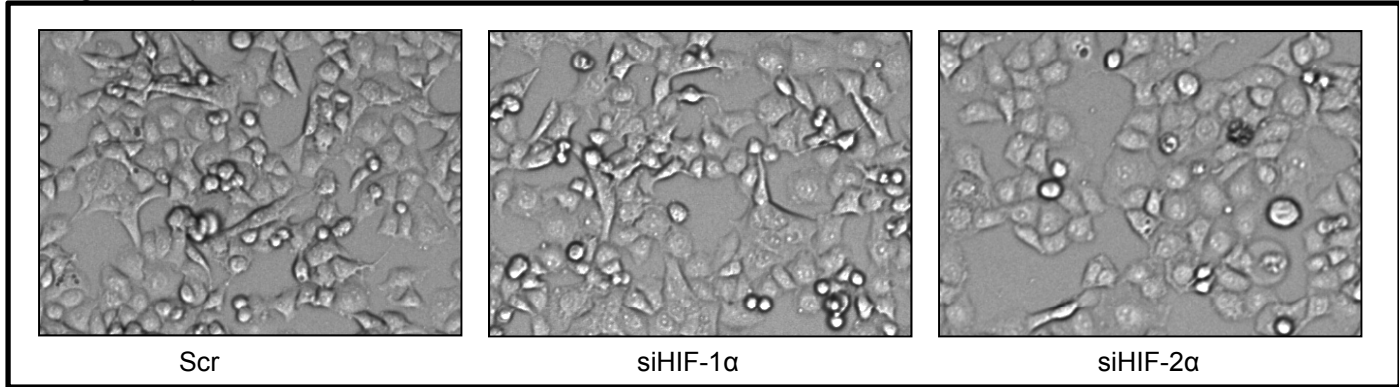


PANC-1

Control (+ serum)



+10ng/ml TGFβ for 48 hours



Supplemental dataS7

